

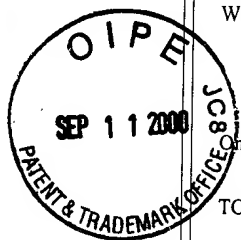
GAU 1772

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Assistant Commissioner for Patents
Washington, D.C. 20231

PATENT
Attorney Docket No.: 20174-000230US
Client Reference No.: 3016-P3



9-6-00

TOWNSEND and TOWNSEND and CREW LLP

By:

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

MARC A. UNGER et al.

Application No.: 09/605,520

Filed: June 27, 2000

For: MICROFABRICATED
ELASTOMERIC VALVE AND PUMP
SYSTEMS

Examiner: Unassigned

Art Unit: 1772

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and

no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



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FORM PTO-1449 (Modified)		Attorney Docket No.: 20174-000230US		Application No.: 09/605,520	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: MARC A. UNGER et al.			
		Filing Date: June 27, 2000		Group: Unassigned	
Reference Designation		U.S. PATENT DOCUMENTS			
Examiner Initial	Document No.	Date	Name	Class	Filing Date (If Appropriate)
AA					SEP 13 2000
		GROUP 1700			
		FOREIGN PATENT DOCUMENTS			
	Document No.	Date	Country	Class	Translation (Yes/No)
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
AB	Brechtel et al., "Control of the electroosmotic flow by metal-salt-containing buffers," <i>J Chromatography A</i> , (1995), 716:97-105.				
AC	Buchaillot, et al., "Silicon nitride thin films Young's modulus determination by an optical non-destructive method," <i>Jpn. J. Appl. Phys.</i> , (1995) Vol. 36, Pt. 2, No. 6B, pp. L794-L797.				
AD	Delamarche et al., "Patterned delivery of immunoglobulins to surfaces using microfluidic networks," <i>Science</i> , (2 May 1997) Vol. 276, pp. 779-781.				
AE	Duffy et al., "Rapid prototyping of microfluidic switches in poly(dimethyl siloxane) and their actuation by electro-osmotic flow," <i>J. Micromech. Microeng.</i> , (1999) Vol. 9, pp. 211-217.				
AF	Effenhauser et al., "Integrated capillary electrophoresis on flexible silicone microdevices: Analysis of DNA restriction fragments and detection of single DNA molecules on microchips," <i>Anal. Chem.</i> , (1997) Vol. 69, pp. 3451-3457.				
AG	Effenhauser et al., "Integrated chip-based capillary electrophoresis," <i>Electrophoresis</i> , (1997), Vol. 18, pp. 2203-2213.				
AH	Fahrenberg et al., "A microvalve system fabricated by thermoplastic molding," <i>J. Micromech. Microeng.</i> , (1995) Vol. 5, pp. 169-171.				
AI	Fu et al., "A microfabricated fluorescence-activated cell sorter," <i>Nature Biotechnology</i> , (November 1999) Vol 17, pp. 1109-1111.				
AJ	Goll et al., "Microvalves with bistable buckled polymer diaphragms," <i>J. Micromech. Microeng.</i> , (1996) Vol. 6, pp. 77-79.				
AK	Harrison et al., "Micromachining a miniaturized capillary electrophoresis-based chemical analysis system on a chip," <i>Science</i> , (13 August 1993) Vol. 261, pp. 895-897.				
AL	Hosokawa et al., "Handling of Picoliter liquid samples in a poly(dimethylsiloxane)-based microfluidic device," <i>Anal. Chem.</i> , (October 1999) Vol. 71, No. 20, pp. 4781-4785.				
AM	Ikuta et al., "Three dimensional micro integrated fluid systems (MIFS) fabricated by stereo lithography," <i>IEEE Kyushu Institute of Technology</i> , (1994) pp. 1-6.				
AN	Jacobson et al., "High-speed separations on a microchip," <i>Anal. Chem.</i> , (April 1994) Vol. 66, No. 7, pp. 1114-1118.				
AO	Jacobson et al., "Microfluidic devices for electrokinetically driven parallel and serial mixing," <i>Anal. Chem.</i> , (October 1999) Vol. 71, No. 20, pp. 4455-4459.				
AP	Kenis et al., "Microfabrication inside capillaries using multiphase laminar flow patterning," <i>Science</i> , (2 July 1999) Vol. 285, pp. 83-85.				
AQ	Lin et al., "Free-space micromachined optical switches for optical networking," <i>IEEE J. Selected Topics in Quantum Electronics</i> , (January/February 1999) Vol. 5, No. 1, pp. 4-9.				
AR	Lötters et al., "The mechanical properties of the rubber elastic polymer polydimethylsiloxane for sensor applications," <i>J. Micromech. Microeng.</i> , (1997) Vol. 7, pp. 145-147.				
AS	Lucy et al., "Characterization of the cationic surfactant induced reversal of electroosmotic flow in capillary electrophoresis," <i>Anal. Chem.</i> , (1996) Vol. 68, pp. 300-305.				
AT	Markx et al. "Applications of dielectrophoresis in biotechnology," <i>Tibtech</i> , (October 1997) Vol. 15, pp. 426-432.				

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FORM PTO-1449 (Modified)		Attorney Docket No.: 20174-000230US	Application No.: 09/605,520
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		Filing Date: June 27, 2000	Group: Unassigned
<input type="checkbox"/> AU	Muller et al., "Surface-micromachined microoptical elements and systems," <i>IEEE</i> (August 1998) Vol. 86, No. 8, pp. 1705-1720.		
<input type="checkbox"/> AV	Schasfoort et al., "Field-effect flow control for microfabricated fluidic networks," <i>Science</i> , (29 October 1999) Vol. 286, pp. 942-945.		
<input type="checkbox"/> AW	Tufte et al., "Silicon diffused-element piezoresistive diaphragms," <i>J. Appl. Phys.</i> (November 1962) Vol. 33, No. 11, pp. 3322-3327.		
<input type="checkbox"/> AX	Washizu et al., "Molecular dielectrophoresis of biopolymers," <i>IEEE Transactions on Industry Applications</i> , (July/August 1994) Vol. 30, No. 4, pp. 835-843.		
<input type="checkbox"/> AY	Xia et al., "Complex optical surfaces formed by replica molding against elastomeric masters," <i>Science</i> (July 1996) Vol. 273, pp. 347-349.		
<input type="checkbox"/> AZ	Xia et al., "Soft Lithography," <i>Angew. Chem. Int. Ed.</i> (1998) Vol. 37, pp. 551-575.		
<input type="checkbox"/> BA	Yazdi et al., "Micromachined inertial sensors," <i>IEEE</i> , (August 1998) Vol. 86, No. 8, pp. 1640-1659.		
<input type="checkbox"/> BB	Young et al., "Contoured elastic-membrane microvalves for microfluidic network integration," <i>J. Biomechanical Engineering</i> , (February 1999) Vol. 121, pp. 2-6.		
<input type="checkbox"/> BC	Hornbeck et al., "Bistable Deformable Mirror Device," <i>Spatial Light Modulators and Applications 1988 Technical Digest Series, Volume 8</i> , Postconference Edition, Summaries of papers presented at the Spatial Light Modulators and Applications Topical Meeting, June 15-17, 1988, Optical Society of America, pp. 170-110.		
EXAMINER		DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

